

INTERNATIONAL SEARCH REPORT

International Application No
PCT/EP2004/007423

A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 B65G53/28

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
IPC 7 B65G

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	PATENT ABSTRACTS OF JAPAN vol. 1997, no. 07, 31 July 1997 (1997-07-31) - & JP 09 071325 A (OGAWA KAZUTOSHI), 18 March 1997 (1997-03-18)	1, 2, 11
Y	abstract; figures 1-6	3, 4
Y	US 4 893 966 A (ROEHL FRANZ) 16 January 1990 (1990-01-16) column 6, line 45 - column 7, line 62 figure 1	3, 4
P, X	DE 102 47 829 A (BOERGER & CO GMBH H) 22 April 2004 (2004-04-22) the whole document	1-4, 11
	----- -/-	

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

* Special categories of cited documents:

- *A* document defining the general state of the art which is not considered to be of particular relevance
- *E* earlier document but published on or after the international filing date
- *L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- *O* document referring to an oral disclosure, use, exhibition or other means
- *P* document published prior to the international filing date but later than the priority date claimed

- *T* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- *X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- *Y* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- *G* document member of the same patent family

Date of the actual completion of the international search

11 July 2005

Date of mailing of the international search report

28/07/2005

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2
NL - 2280 HV Rijswijk
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,
Fax (+31-70) 340-3016

Authorized officer

Papatheofrastou, M

INTERNATIONAL SEARCH REPORT

International Application No
PCT/EP2004/007423

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
E	WO 2004/087331 A (BOERGER & CO GMBH H ; KLEINEIDAM ANDREAS (DE); KLEINEIDAM WILHARD (DE)) 14 October 2004 (2004-10-14) the whole document -----	1-4, 11

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/EP2004/007423

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
JP 09071325	A	18-03-1997	NONE	
US 4893966	A	16-01-1990	DE 3722314 A1	19-01-1989
			DE 8807520 U1	05-10-1989
			AT 78232 T	15-08-1992
			DE 3872780 D1	20-08-1992
			EP 0300113 A1	25-01-1989
			JP 1313219 A	18-12-1989
DE 10247829	A	22-04-2004	DE 10247829 A1	22-04-2004
			AU 2003304031 A1	25-10-2004
			CA 2491391 A1	14-10-2004
			WO 2004087331 A1	14-10-2004
			US 2005095071 A1	05-05-2005
WO 2004087331	A	14-10-2004	DE 10247829 A1	22-04-2004
			DE 10261053 A1	08-07-2004
			AU 2003304031 A1	25-10-2004
			CA 2491391 A1	14-10-2004
			WO 2004087331 A1	14-10-2004
			US 2005095071 A1	05-05-2005